

Listing of Claims:

Claims 1-46 (Canceled).

47. (Currently Amended) An imaging apparatus for a
microscope, comprising:

an imaging element which picks up an image observed through
the microscope; and

5 an operation display section;

wherein the operation display section comprises:

an operation section comprising an imaging start
instructing member, a recording range enlargement instructing
member, a recording range reduction instructing member, a display
10 enlargement instructing member, and a display reduction
instructing member;

a recording section which includes a removable
recording medium, and which is configured to temporarily record
the image picked up by the imaging element;

15 a display section configured to display the image
temporarily recorded by the recording section at a display
magnification, which is variable; and

a control section which controls recording and
reproducing operations of the recording section and the display
20 magnification of the display section, and which selectively
controls a recording range of the image instructed by the

recording range enlargement instructing member and the recording
range reduction instructing member, and the display magnification
of the image instructed by the display enlargement instructing
25 member and the display reduction instructing member, wherein the
control section has a moving image imaging mode which
continuously repeats temporary recording by the recording section
and display by the display section, and a still image imaging
mode which records an image within the recording range among
30 images temporarily recorded by the recording section, and wherein
the control section controls the recording and reproducing
operations in an operation mode selected from:

a first operation mode in which ~~the recording range of~~
~~the image~~ a still image is recorded at a maximum resolution in
35 the still image imaging mode ~~is fixed~~, and a moving image is
displayed in the display section while a display range and the
display magnification of the moving image are variable based on
the display enlargement instructing member and an instruction by
the display enlargement instructing member in the moving image
40 imaging mode ~~are variable as an angle of view of the image~~
~~displayed on the display section is changed;~~

a second operation mode in which the still image is
recorded in the recording range of the image, which is set based
on instructions by the recording range enlargement instructing
45 member and the recording range reduction instructing member in

the still image imaging mode ~~is variable~~, and the display range
and the display magnification of the image the moving image is
displayed in the display section at the maximum resolution in the
moving image imaging mode ~~are fixed~~; and

50 a third operation mode in which the still image is
recorded in the recording range of the image, which is set based
on instructions by the recording range enlargement instructing
member and the recording range reduction instructing member in
the still image imaging mode ~~is variable~~, and the display range
55 ~~and the display magnification of the image~~ the recording range
set by the still image imaging mode is displayed as a moving
image in the moving image mode ~~are variable as an angle of view~~
~~of the image displayed on the display section is changed based on~~
~~the recording range of the image in the still image imaging mode.~~

48. (Previously Presented) The imaging apparatus for a
microscope according to claim 47, wherein the operation section
further comprises:

5 a recording range display instructing member which causes
the display section to display the recording range of the image;

 a recording range instructing member which varies the
recording range of the image; and

 an image list display instructing member which causes the
display section to display a list of images of predetermined
areas of the image recorded in the record section.